

Diffusion spin echo decay by pulsed magnetic field gradient NMR and some structure features in blockcopolymer solutions

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Abstract

Blockcopolymer solutions were investigated by pulsed field gradient NMR. Nonexponential diffusion decay of solvent molecules and the dependence of it's shape on time of observation were found out. These features (unusual for solvent molecules) were explained on assumption of the solution heterogeneous structure. Consideration, performed, allow us to estimate the linear dimensions of the heterogeneities, which for concentrated systems occurred to be near 10000 Å.
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